

1. (Previously Canceled)
2. (Currently Amended) A recombinant human gelatin of having a molecular weight selected from the group consisting of about 1 kDa, about 5 kDa, about 8 kDa, about 9 kDa, about 10 kDa, about 14 kDa, about 16 kDa, about 18 kDa, about 20 kDa, about 22 kDa, about 23 kDa, about 29 kDa, about 33 kDa, about 36 kDa, about 41 kDa, about 44 kDa, about 50 kDa, and about 65 kDa.
3. (Currently Amended) A recombinant human gelatin of having a molecular weight range selected from the group consisting of about 0 1 to 50 kDa, about 50 to 100 kDa, about 100 to 150 kDa, about 150 to 200 kDa, about 200 to 250 kDa, about 250 to 300 kDa, and about 300 to 350 kDa.
4. (Currently Amended) A recombinant gelatin composition consisting essentially of recombinant gelatin polypeptides having of a uniform molecular weight, wherein the uniform molecular weight is greater than 300 kDa.
5. (Currently Amended) A recombinant human gelatin of having a Bloom strength selected from the group consisting of 50, 100, 150, 200, 250, and 300.
6. (Currently Amended) A recombinant human gelatin of having a Bloom strength of between 0 and 100.
7. (Previously Canceled)
8. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation selected from the group consisting of greater than 0% to 20%, 20 to 80%, and 80 to 100%.
9. (Previously Canceled)
10. (Previously Canceled)

11. (Previously Canceled)
12. (Currently Amended) A ~~composition comprising a recombinant gelatin composition~~ consisting essentially of, wherein the recombinant gelatin comprises homogeneous recombinant gelatin polypeptides of a uniform molecular weight.
13. (Previously Canceled)
14. (Previously Canceled)
15. (Previously Canceled).
16. (Previously Canceled)
17. (Previously Canceled)
18. (Previously Canceled)
19. (Previously Canceled)
20. (Previously Canceled)
21. (Previously Amended) A recombinant gelatin comprising the amino acid sequence of SEQ ID NO:18.
22. (Previously Canceled)
23. (Previously Canceled)
24. (Previously Canceled)
25. (Previously Canceled)
26. (Previously Canceled)

27. (Previously Canceled)
28. (Previously Canceled)
29. (Previously Canceled)
30. (Previously Amended) A recombinant gelatin comprising the amino acid sequence of SEQ ID NO:29.
31. (Previously Canceled)
32. (Previously Canceled)
33. (Previously Canceled)
34. (Previously Canceled)
35. (Previously Canceled)
36. (Previously Canceled)
37. (Previously Canceled)
38. (Previously Canceled)
39. (Previously Canceled)
40. (Previously Canceled)
41. (Previously Canceled)
42. (Previously Canceled)

43. (Previously Amended) An encapsulant comprising a recombinant human gelatin.
44. (Previously Amended) A stabilizing agent comprising a recombinant human gelatin.
45. (Previously Amended) A film-forming agent comprising a recombinant human gelatin.
46. (Previously Canceled)
47. (Previously Amended) An emulsifier comprising a recombinant human gelatin.
48. (Previously Amended) A thickening agent comprising a recombinant human gelatin.
49. (Previously Canceled)
50. (Previously Amended) A colloidal agent comprising a recombinant human gelatin.
51. (Previously Canceled)
52. (Previously Canceled)
53. (Previously Canceled)
54. (Previously Amended) A hard gel capsule comprising a recombinant human gelatin.
55. (Previously Amended) A soft gel capsule comprising a recombinant human gelatin.
56. (Previously Amended) A plasma expander comprising a recombinant human gelatin.
57. (Previously Amended) A colloidal volume replacement material comprising a recombinant human gelatin.
58. (Previously Canceled)
59. (Previously Amended) A medical sponge comprising a recombinant human gelatin.

- 60. (Previously Canceled)
- 61. (Previously Amended) A pharmaceutical stabilizer comprising a recombinant human gelatin.
- 62. (Previously Amended) A microcarrier comprising a recombinant human gelatin.
- 63. (Previously Canceled)
- 64. (Previously Amended) An edible composition comprising a recombinant human gelatin.
- 65. (Previously Amended) A protein supplement comprising a recombinant human gelatin.
- 66. (Previously Amended) A fat substitute comprising a recombinant human gelatin.
- 67. (Previously Amended) A nutritional supplement comprising a recombinant human gelatin.
- 68. (Previously Amended) An edible coating comprising a recombinant human gelatin.
- 69. (Previously Canceled)
- 70. (Previously Amended) A photographic composition comprising a recombinant human gelatin.
- 71. (Previously Amended) A cosmetic composition comprising a recombinant human gelatin.
- 72. (Previously Amended) An industrial composition comprising a recombinant human gelatin.
- 73. (Previously Amended) A cell culture composition comprising a recombinant human gelatin.

74. (Previously Canceled)
75. (Previously Added) The pharmaceutical stabilizer of claim 61, wherein the pharmaceutical stabilizer is a vaccine stabilizer.
76. (Currently Amended) A recombinant human gelatin of having a molecular weight range selected from the group consisting of about 10 to 30 kDa, about 30 to 50 kDa, and about 50 to 70 kDa.
77. (Currently Amended) A recombinant human gelatin of having a molecular weight range selected from the group consisting of about 10 to 70 kDa, about 150 to 250 kDa, and about 250 to 350 kDa.
78. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation selected from the group consisting of 20 to 40%, 40 to 60%, and 60 to 80%.
79. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation selected from the group consisting of 20 to 30%, 30 to 40%, and 40 to 80%.
80. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation of 30 to 80%.
81. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation of 20 to 60%.
82. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation of 30 to 60%.
83. (Currently Amended) A ~~composition comprising a recombinant gelatin, wherein the recombinant gelatin has~~ having a percentage hydroxylation selected from the group

consisting of greater than 0% to 20%, 20 to 80%, and 80 to 100%, and further wherein the hydroxylation is proline hydroxylation.

84. (Previously Canceled)
85. (Previously Canceled)
86. (Previously Canceled)
87. (Previously Canceled)
88. (Previously Canceled)
89. (Currently Amended) ~~A composition comprising a recombinant human gelatin, wherein the recombinant human gelatin is produced directly from an altered collagen construct by~~ expression of a polynucleotide sequence that contains at least one collagenous domain and that does not encode naturally occurring collagen.
90. (Currently Amended) A pharmaceutical composition comprising a recombinant gelatin and a pharmaceutically acceptable excipient, wherein the recombinant gelatin consists of ~~comprises homogeneous recombinant gelatin polypeptides of a uniform molecular~~ weight.
91. (Previously Canceled)
92. (Currently Amended) A pharmaceutical composition comprising a non-hydroxylated recombinant human gelatin and a pharmaceutically acceptable excipient, ~~wherein the recombinant human gelatin is non-hydroxylated.~~
93. (Currently Amended) A pharmaceutical composition comprising a recombinant gelatin and a pharmaceutically acceptable excipient, wherein the recombinant gelatin has a percentage hydroxylation selected from the group consisting of greater than 0 to 20%, 20 to 80%, and 80 to 100%.